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Atty Dkt No. 8325-0014

FORM PTO-1449 (Modified)  
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In the Application of Wolffe and Collingwood

Serial No.: 09/844,508

Art Unit: 1845 1636

Filed: April 27, 2001

Examiner: unassigned

Title: TARGETED MODIFICATION OF CHROMATIN STRUCTURE

AKHAYAN

U.S. PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Date	Name	Class	Sub Class	Filing Date
<u>GS</u>	AA-1	5,972,608	October 26, 1999	Peterson et al.			

FOREIGN PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Publication Date	Country or Patent Office	Class	Sub Class	Translation YES	NO
<u>GS</u>	AB-1	WO 95/09233	April 6, 1995	PCT				
<u>GS</u>	AC-1	WO 97/11972	April 3, 1997	PCT				
<u>GS</u>	AD-1	WO 00/23464	April 27, 2000	PCT				
<u>GS</u>	AE-1	WO 00/41566	July 20, 2000	PCT				
<u>GS</u>	AF-1	WO 00/42219	July 20, 2000	PCT				
<u>GS</u>	AG-1	WO 01/52620	July 26, 2001	PCT				
<u>GS</u>	AH-1	WO 01/59094	August 16, 2001	PCT				
<u>GS</u>	AI-1	WO 01/68807	September 20, 2001	PCT				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Examiner: William Sankh

Date Considered: 3-6-03

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In the Application of Wolffe and Collingwood

Serial No.: 09/844,508

Art Unit: 1645/636

Filed: April 27, 2001

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Exam. Init.	Ref. Desig.	Description
<u>4</u>	AJ-1	Ahringer, "NuRD and SIN 3 Histone Deacetylase Complexes in Development," <i>Trends in Genetics</i> <u>16</u> :351-356 (2000)
<u>4</u>	AK-1	Bergel et al., "Structural and Functional Definition of the Human Chitinase Chitin-binding Domain," <i>Journal of Biological Chemistry</i> <u>275</u> (1):514-520 (2000)
<u>4</u>	AL-1	Bird et al., "Methylation-Induced Repression-Belts, Braces, and Chromatin," <i>Cell</i> <u>99</u> :451-454 (1999)
<u>4</u>	AM-1	Bochar et al., "A Family of Chromatin Remodeling Factors Related Williams Syndrome Transcription Factor," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>97</u> :1038-1043 (2000)
<u>4</u>	AN-1	Boyes et al., "Regulation of Activity of the Transcription Factor GATA-1 by Acetylation," <i>Nature</i> <u>396</u> :594-598 (1998)
<u>4</u>	AO-1	Cairns et al., "Two Functionally Distinct Forms of the RSC Nucleosome-Remodeling Complex, Containing Essential AT Hook, BAH, and Bromodomains," <i>Molecular Cell</i> <u>4</u> :715-723 (1999)
<u>4</u>	AP-1	Cairns, B.R., "Chromatin Remodeling Machines: Similar Motors, Ulterior Motives," <i>Trends Biochem. Sci.</i> <u>23</u> :20-25 (1998)
<u>4</u>	AQ-1	Chen et al., "Regulation of Transcription by a Protein Methyltransferase," <i>Science</i> <u>284</u> :2174-2177 (1999)
<u>4</u>	AR-1	de La Serna et al., "Mammalian SWI-SNF Complexes Contribute to Activation of the <i>hsp 70</i> Gene," <i>Mol. Cell Biol.</i> <u>20</u> :2839-2851 (2000)
<u>4</u>	AS-1	Devine et al., "After Chromatin is SWItched-on Can it be RUSHed?," <i>Molecular and Cellular Endocrinology</i> <u>151</u> (1-2):49-56 (1999)

Examiner: William Ingh

Date Considered: 2-6-03

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In the Application of Wolffe and Collingwood

Serial No.: 09/844,508

Art Unit: 1645

Filed: April 27, 2001

Examiner: unassigned

1636  
SKHAYAN

Title: TARGETED MODIFICATION OF CHROMATIN STRUCTURE

Exam. Init.	Ref. Desig.	Description
	AT-1	Deuring et al., "The ISWI Chromatin-Remodeling Protein is Required for Gene Expression and the Maintenance of Higher Order Chromatin Structure <i>In Vivo</i> ," <i>Mol. Cell</i> <u>5</u> :355-365 (2000)
	AU-1	Fryer et al., "Chromatin Remodelling by the Glucocorticoid Receptor Requires the BRG 1 Complex," <i>Nature</i> <u>393</u> :88-91 (1998)
	AV-1	Grunstein, M., "Histone Acetylation in Chromatin Structure and Transcription," <i>Nature</i> <u>389</u> :349-352 (1997)
	AW-1	Gu et al., "Activation of p53 Sequence-Specific DNA Binding by Acetylation of the p53-C-Terminal Domain," <i>Cell</i> <u>90</u> :595-606 (1997)
	AX-1	Guschin et al., "ATP-Dependent Histone Octamer Mobilization and Histone Deacetylation Mediated by the Mi-2 Chromatin Remodeling Complex," <i>Biochemistry</i> <u>39</u> :5238-5245 (2000)
	AY-1	Hartzog et al., "Nucleosomes and Transcription: Recent Lessons from Genetics," <i>Curr. Opin. Genet. Devel.</i> <u>7</u> :192-198 (1997)
	AZ-1	Herrera et al., "Specific Acetylation of Chromosomal Protein HMG-17 by PCAF Alters Its Interaction with Nucleosomes," <i>Molecular and Cellular Biology</i> <u>19</u> (5):3466-3473 (1999)
	BA-1	Holstege et al., "Dissecting the Regulatory Circuitry of a Eukaryotic Genome," <i>Cell</i> <u>95</u> :717-728 (1998)
	BB-1	Imhof et al., "Acetylation of General Transcription Factors by Histone Acetyltransferases," <i>Current Biology</i> <u>7</u> :689-692 (1997)

Examiner:

William S. B. L.

Date Considered:

3-6-03

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Art Unit: 1645

1636 ARHMAN

Filed: April 27, 2001

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Title: TARGETED MODIFICATION OF CHROMATIN STRUCTURE

Exam. Init.	Ref. Desig.	Description
	BC-1	Jacobson et al., "Structure and Function of a Human TAF <sub>I</sub> 250 Double Bromodomain Module," <i>Science</i> <u>288</u> :1422-1425 (2000)
	BD-1	Kadam et al., "Functional Selectivity of Recombinant Mammalian SWI/SNF Subunits," <i>Genes &amp; Development</i> <u>14</u> :2441-2451 (2000)
	BE-1	Kadonaga, J.T., "Eukaryotic Transcription: An Interlaced Network of Transcription Factors and Chromatin-Modifying Machines," <i>Cell</i> <u>92</u> :307-313 (1998)
	BF-1	Kehle et al., "dMi-2, Hunchback-Interacting Protein that Functions in <i>Polycomb</i> Repression," <i>Science</i> <u>282</u> :1897-1900 (1998)
	BG-1	Kim et al., "Hybrid Restriction Enzymes: Zinc Finger Fusions to <i>Fok</i> I Cleavage Domain," <i>PNAS</i> <u>93</u> (3):1156-1160 (1996)
	BH-1	Kingston et al., "ATP-Dependent Remodeling and Acetylation as Regulators of Chromatin Fluidity," <i>Genes &amp; Development</i> <u>13</u> :2339-2352 (1999)
	BI-1	Klug, A., "Zinc Finger Peptides for the Regulation of Gene Expression," <i>J. Mol. Biol.</i> <u>293</u> :215-218 (1999)
	BJ-1	Knoepfler et al., "Sin Meets NuRD and Other Tails of Repression," <i>Cell</i> <u>99</u> :447-450 (1999)
	BK-1	Kornberg et al., "Twenty-Five Years of the Nucleosome, Fundamental Particle of the Eukaryote Chromosome," <i>Cell</i> <u>98</u> :285-294 (1999)
	BL-1	Kouzarides, T., "Histone Acetylases and Deacetylases in Cell Proliferation," <i>Current Opin. Genet. Devel.</i> <u>9</u> :40-48 (1999)

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Title: TARGETED MODIFICATION OF CHROMATIN STRUCTURE

Exam. Init.	Ref. Desig.	Description
	BM-1	Kuo et al., "Roles of Histone Acetyltransferases and Deacetylases in Gene Regulation," <i>BioEssays</i> <u>20</u> :615-626 (1998)
	BN-1	Laurent et al., "Functional Interdependence of the Yeast SNF2, SNF5, and SNF6 Proteins in Transcriptional Activation," <i>PNAS</i> <u>88</u> :2687-2691 (1991)
	BO-1	LeRoy et al., "Requirement of RSF and FACT for Transcription of Chromatin Templates <i>in Vitro</i> ," <i>Science</i> <u>282</u> :1900-1904 (1998)
	BP-1	McDowell et al., "Localization of a Putative Transcriptional Regulator (ATRX) at Pericentromeric Heterochromatin and the Short Arms of Acrocentric Chromosomes," <i>PNAS</i> <u>96</u> :13983-13988 (1999)
	BQ-1	Miller et al., "Repetitive Zinc-Binding Domains in the Protein Transcription Factor IIIA From <i>Xenopus</i> Oocytes," <i>EMBO J.</i> <u>4</u> :1609-1614 (1985)
	BR-1	Mizzen et al., "Linking Histone Acetylation to Transcriptional Regulation," <i>Cellular and Molecular Life Sciences</i> <u>54</u> :6-20 (1998)
	BS-1	Munshi et al., "Acetylation of HMG I(Y) by CBP Turns Off IFN $\beta$ Expression by Disrupting the Enhanceosome," <i>Molecular Cell</i> <u>2</u> :457-467 (1998)
	BT-1	Muchardt et al., "A Human Homologue of <i>Saccharomyces cerevisiae</i> SNF2/SWI2 and <i>Drosophila</i> brm Genes Potentiates Transcriptional Activation by the Glucocorticoid Receptor," <i>EMBO Journal</i> <u>12</u> :4279-4290 (1993)
	BU-1	Muchardt et al., "ATP-Dependent Chromatin Remodelling: SWI/SNF and Co. are on the Job," <i>Journal of Molecular Biology</i> <u>293</u> :187-198 (1999)

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Examiner: unassigned

Title: TARGETED MODIFICATION OF CHROMATIN STRUCTURE

Exam. Init.	Ref. Desig.	Description
	BV-1	Murphy et al., "Human SWI-SNF Component BRG1 Represses Transcription of the c-fos Gene," <i>Molecular and Cellular Biology</i> <u>19</u> (4):2724-2733 (1999)
	BW-1	Näär et al., "Composite Co-Activator ARC Mediates Chromatin-Directed Transcriptional Activation," <i>Nature</i> <u>398</u> :828-832 (1999)
	BX-1	Neely et al., "Activation Domain-Mediated Targeting of the SWI/SNF Complex to Promoters Stimulates Transcription from Nucleosome Arrays," <i>Molecular Cell</i> <u>4</u> :649-655 (1999)
	BY-1	Ng et al., "Histone Deacetylases: Silencers for Hire," <i>Trends Biochem. Sci.</i> <u>25</u> :121-126 (2000)
	BZ-1	Pazin et al., "ATP-Dependent Nucleosome Reconfiguration and Transcriptional Activation from Preassembled Chromatin Templates," <i>Science</i> <u>266</u> :2007-2011 (1994)
	CA-1	Peterson et al., "Promoter Targeting and Chromatin Remodeling by the SWI/SNF Complex," <i>Current Opinions in Genetics &amp; Development</i> <u>10</u> :187-192 (2000)
	CB-1	Peterson et al., "Recruitment of Chromatin Remodeling Machines," <i>Journal of Cellular Biochemistry</i> <u>78</u> :179-185 (2000);
	CC-1	Picketts et al., "ATRX Encodes a Novel Member of the SNF2 Family of Proteins: Mutations Point to a Common Mechanism Underlying the ATR-X Syndrome," <i>Human Molecular Genetics</i> <u>5</u> (12):1899-1907 (1996)
	CD-1	Rachez et al., "Ligand-Dependent Transcription Activation by Nuclear Receptors Requires the DRIP Complex," <i>Nature</i> <u>398</u> :824-828 (1999)

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Title: TARGETED MODIFICATION OF CHROMATIN STRUCTURE

Exam. Init.	Ref. Desig.	Description
	CE-1	Rea et al., Regulation of Chromatin Structure by Site-Specific Histone H3 Methyltransferases," <i>Nature</i> <u>406</u> :593-599 (2000)
	CF-1	Rhodes et al., "Zinc Fingers," <i>Scientific American</i> <u>268</u> (2):56-65 (1993)
	CG-1	Roth et al., "Histone Acetylation and Chromatin Assembly: A Single Escort, Multiple Dances?," <i>Cell</i> <u>87</u> :5-8 (1996)
	CH-1	Sassone-Corsi et al., "Requirement of Rsk-2 for Epidermal Growth Factor-Activated Phosphorylation of Histone H3," <i>Science</i> <u>285</u> :886-891 (1999)
	CI-1	Schultz et al., "Targeting Histone Deacetylase Complexes Via KRAB-Zinc Finger Proteins: The PHD and Bromodomains of KAP-1 Form a Cooperative Unit That Recruits a Novel Isoform of the Mi-2 $\alpha$ Subunit of NuRD," <i>Genes &amp; Development</i> <u>15</u> :428-443 (2001)
	CJ-1	Sterner et al., "Studies of Acetylation and Deacetylation in High Mobility Group Proteins," <i>The Journal of Biological Chemistry</i> <u>256</u> (17):8892-8895 (1981)
	CK-1	Sterner et al., "Acetylation of Histones and Transcription-Related Factors," <i>Microbiology and Molecular Biology Review</i> <u>64</u> (2):435-459 (2000)
	CL-1	Strahl et al., "The Language of Covalent Histone Modifications," <i>Nature</i> <u>403</u> :41-45 (2000)
	CM-1	Struhl, "Histone Acetylation and Transcriptional Regulatory Mechanisms," <i>Genes Dev.</i> <u>12</u> :599-606 (1998)
	CN-1	Sudarsanam et al., "Whole-Genome Expression Analysis of <i>snf/swi</i> Mutants of <i>Saccharomyces Cerevisiae</i> ," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>97</u> :3364-3369 (2000)

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Title: TARGETED MODIFICATION OF CHROMATIN STRUCTURE

Exam. Init.	Ref. Desig.	Description
	CO-1	Sudarsanam et al., "The Swi/Snf Family Nucleosome-Remodeling Complexes and Transcriptional Control," <i>Trends in Genetics</i> <u>16</u> :345-351 (2000)
	CP-1	Tsukiyama et al., "Purification and Properties of an ATP-Dependent Nucleosome Remodeling Factor," <i>Cell</i> <u>83</u> :1011-1020 (1995)
	CQ-1	Tsukiyama et al., "Characterization of the Imitation Switch Subfamily of ATP-Dependent Chromatin-Remodeling Factors in <i>Saccharomyces cerevisiae</i> ," <i>Genes Dev.</i> <u>13</u> :686-697 (1999)
	CR-1	Tyler et al., "The "Dark Side" of Chromatin Remodeling: Repressive Effects on Transcription," <i>Cell</i> <u>99</u> :443-446 (1999)
	CS-1	Van Steensel et al., "Identification of <i>In Vivo</i> DNA Targets of Chromatin Proteins Using Tethered Dam Methyltransferase," <i>Nature Biotechnology</i> <u>18</u> :424-428 (2000)
	CT-1	Varga Weisz et al., "Energy-Dependent Chromatin Accessibility and Nucleosome Mobility in a Cell-Free System," <i>EMBO J.</i> <u>14</u> (10):2209-2216 (1995)
	CU-1	Varga Weisz et al., "Chromatin-Remodelling Factor CHRAC Contains the ATPases ISWI and Topoisomerase II," <i>Nature</i> . <u>388</u> :598-602 (1997)
	CV-1	Wade et al., "Histone Acetylation: Chromatin in Action," <i>Trends Biochem Sci</i> <u>22</u> :128-132 (1997)
	CW-1	Wallberg et al., "Recruitment of the SWI-SNF Chromatin Remodeling Complex as a Mechanism of Gene Activation by the Glucocorticoid Receptor t1 Activation Domain," <i>Molecular and Cellular Biology</i> <u>20</u> (6):2004-2013 (2000)

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Serial No.: 09/844,508

Art Unit: 1645

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Examiner: unassigned

Title: TARGETED MODIFICATION OF CHROMATIN STRUCTURE

Exam. Init.	Ref. Desig.	Description
CX-1		Wolffe et al., "Review: Chromatin Structural Features and Targets That Regulate Transcription," <i>Journal of Structural Biology</i> <u>129</u> :102-122 (2000)
CY-1		Wolffe et al., "Co-Repressor Complexes and Remodeling Chromatin for Repression," <i>Biochemical Society Transactions</i> <u>28</u> (4):379-386 (2000)
CZ-1		Wolffe et al., "Targeting Chromatin Disruption Transcription Regulators That Acetylate Histones," <i>Cell</i> <u>84</u> :817-819 (1996)
DA-1		Wong et al., "Determinants of Chromatin Disruption and Transcriptional Regulation Instigated by the Thyroid Hormone Receptor: Hormone-Regulated Chromatin Disruption is Not Sufficient for Transcriptional Activation," <i>EMBO Journal</i> <u>16</u> (11):3158-3171 (1997)
DB-1		Workman et al., "Alteration of Nucleosome Structure as a Mechanism of Transcriptional Regulation," <i>Ann. Rev. Biochem.</i> <u>67</u> :545-579 (1998)
DC-1		Xu et al., "Cytosine Methylation Targetted to Pre-Determined Sequences," <i>Nature Genetics</i> <u>17</u> :376-378 (1997)
DD-1		Yoshinaga et al., "Roles of SWI1, SWI2, and SWI3 Proteins for Transcriptional Enhancement by Steroid Receptors," <i>Science</i> <u>258</u> :1598-1604 (1992)

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In the Application of Wolfe and Collingwood

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Title: TARGETED MODIFICATION OF CHROMATIN STRUCTURE

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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	AB-2						

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Exam. Init.	Ref. Desig.	Description
<i>W</i>	AC-2	White et al., "Ligand-Independent Activation of the Oestrogen Receptor by Mutation of a Conserved Tyrosine," <i>EMBO Journal</i> 16(6):1427-1435 (1997)

Examiner: *William S. Smith*

Date Considered: *3-6-03*

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